VR-II VR-III	AKEAATK - GGTGGGSEKIGDVGAANNVGAVADKDSVKGIAKGIVDAAGKAFGKDGG - NALTGVKEVADEA - GA-NEDAGKLFAGNAGAA AAD	VR-V  ADAAGADFG-DDMKK-SDRIAAAIVLRGVARSGKFAVANAAKKESVKSAV TNDDB.KG  N. DNA.A.K.E  N. DNA.A.K.E  N. DNA.A.K.E  N. DD.A.A.NEN  TADDB.KG  N. DD-NA.A.  TADDB.KG  N. DD-NA.A.  N. DD-NA.A.  TADDB.C  TADDANN  TABL  TA
VR-I	ESAVDGVSKWIEEMIKAARKEAATK GGTGGGSEKIGDVGAANNGGAVADKDSVKGIRKGIVDAAGKAFGK  B. GG NN SD K SB E A B B A B B B -	VR-VI   VR-V
	cassettel cassette3 cassette4 cassette6 cassette6 cassette10 cassette110 cassette112 cassette112 cassette113 cassette113 cassette113 cassette113 cassette113	cassetted cassetted cassetted cassetted cassetted cassetted cassettell cassettell cassettell cassettell cassettell cassettell cassettell cassettell cassettell

FIG. 2A

LFVKKNAGDHGGEAGDAG	RA.D. G. DADDAGK RA.D. G. DADDAGK RA.D. G. DADDAGK RA.D. G. DADDAGK RA.D. G. RA.D. D.					
NVAGAAGAEGNEAAGKLFVI DDGAGGGA DDKD. DTT.VNV	DAT. E. TT. VN. DAT. E. TT. VN. D. D. T. T. KD. D. D. T. KD.	VR-VI	ALK DAAHDNH	D.AAH-	TNDAT.	VGEKEKA
SVNGIAKGIKGIVDAAEKADAKEGKI   NVAGAAGAEGNEAAGKLFVKKNAGDHGGEAGDA   D	D. D. T. KD.  A. E. TT. AD.  D. D. D. T. KD.  KAVA. KG. N. KG.		.DDQIAAAWULRGMAKDGQFA		TNDA	IAK
NAAIGDVVNGNDG-AAKGGDAASVNGIAKGI G STTKSGE.D.	<b>X</b>	VR-V	(GSTGADDNAAEAF ATMKK	GAD. GA NK. TN D. A AD NKEG. SA. AN DK.		DK.GG.EFGODE.
ASAATGNAAIGDWWGN	. KNS	VR-IV	DKOG-KKAEDAENPIDAAI	E.DA.T. E. GAD.GANK		EQDP.E.KA
KGTV KNAVDMIKAAAVAASA ASAATQÑAAIGĐVVNGNDG - AAKGGDAASVNGIAKGIKDIVDAAEKADAKEGKINVAGAAGAEGNEAAGKLFVKKNAGDHGGEAQDAG         E. AITEIS. WLD. A       B. D. D. B. D. GAGGG       B. D. B. D. GAGGG       B. D. B. D	E		RAAAAVAAVSGEQILKAIVDAAKDGGDKQG-KKAEDAENPIDAAIGSTGADDNAAEAFATMKKDDQIAAAMVIRGMAKDGQFAI <mark>KDAAHDN</mark> I	K K K K K K K K K K K K K K K K K K K		

TG 21

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VK-III SE Clone 2622 1 GIVAAAGKADGDALTGVAKAA-ENDANKDAGKLFAGKNGNAGAADIAKAAAAVTAVSGEQILKAIV	vls7 sE Clone 2624a 1DΕ.SKDV.DDD]	vls12 vls10 sE Clone 2624b 1DEKDV.DGD	SE Clone 2625 1DE.SKD.KTV.A.E		SE CLONE 2622 69 EAAGDA-DQAGVKADAAKNPIAAAIGTADDGAAFGKDEMKKRNDKIVAAIVLRGV vls7	sE Clone 2624a 69 DA.ANKAD]EFDS.N.A	SE Clone 2624b 73AEE	SE Clone 2625 72 DGANK.AE
VlsE Clo	VISE CLO	VisE Clo	VlsE Clo			VlsE Clo		VisE Clo
ACAI V	ACAI V	ACAI V	ACAI V1SE	i !	ACAI VISE	ACAI V	ACAI VISE	ACAI V

FIG. 4A

FIG. 4B